

**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING****Course Code / Name :U14CSE17/Social Network Analysis****Class (Year / Programme / Department / Section): IV/BE/CSE/A&B****LESSON PLAN**

UNIT -1 INTRODUCTION				
Session No	Topic	Duration in Minutes	Teaching Aid	Book Referred
1	Introduction to Semantic Web: Limitations of current Web	45	PPT	R1
2	Development of Semantic Web	45	PPT	R1
3	Emergence of the Social Web	45	PPT	R1
4	Social Network analysis: Development of Social Network Analysis	45	PPT	R1
5	Key concepts and measures in network analysis	45	PPT	R1
6	Electronic sources for network analysis: Electronic discussion networks	45	PPT	R1
7	Blogs and online communities	45	PPT	R1
8	Web-based networks	45	PPT	R1
9	Applications of Social Network Analysis	45	PPT	R1
UNIT-2 MODELLING, AGGREGATING AND KNOWLEDGE REPRESENTATION				
1	Ontology and their role in the Semantic Web: Ontology	45	PPT	R1
2	based knowledge Representation	45	PPT	R1
3	Ontology languages for the Semantic Web: Resource Description Framework	45	PPT	R1
4	Web Ontology Language	45	PPT	R1
5	Modeling and aggregating social network data: State-of-the-art in network data representation	45	PPT	R1
6	Ontological representation of social individuals	45	PPT	R1
7	Ontological representation of social relationships	45	PPT	R1
8	Aggregating and reasoning with social network data	45	PPT	R1
9	Advanced representations	45	PPT	R1
UNIT -3 EXTRACTION AND MINING COMMUNITIES IN WEB SOCIAL NETWORKS				
1	Web of Things versus Internet of Things	45	PPT	R1
2	Two Pillars of the Web – Architecture Standardization for WoT	45	PPT	R1
3	Platform Middleware for WoT	45	PPT	R1
4	Unified Multitier WoT Architecture	45	PPT	R1
5	WoT Portals and Business Intelligence	45	PPT	R1
6	Cloud of Things: Grid/SOA and Cloud Computing	45	PPT	R1
7	Cloud Middleware – Cloud Standards	45	PPT	R1
8	Cloud Providers and Systems	45	PPT	R1
9	Mobile Cloud Computing	45	PPT	R1
10	The Cloud of Things Architecture	45	PPT	R1
UNIT -4 PREDICTING HUMAN BEHAVIOUR AND PRIVACY ISSUES				
1	Understanding and predicting human behaviour for social communities	45	BB	R1

2	User data management	45	PPT	R1
3	Inference and Distribution	45	PPT	R1
4	Enabling new human experiences	45	PPT	R1
5	Reality mining - Context - Awareness	45	PPT	R1
6	Privacy in online social networks	45	PPT	R1
7	Trust in online environment - Trust models based on su	45	PPT	R1
8	Trust network analysis - Trust transitivity analysis	45	PPT	R1
9	Combining trust and reputation	45	PPT	R1
10	Trust derivation based on trust comparisons	45	PPT	R1
11	Attack spectrum and countermeasures	45	PPT	R1
UNIT -5 VISUALIZATION AND APPLICATIONS OF SOCIAL NETWORKS				
1	Graph theory - Centrality - Clustering	45	PPT	R1
2	Node-Edge Diagrams	45	PPT	R1
3	Matrix representation	45	PPT	R1
4	Visualizing online social networks	45	PPT	R1
5	Visualizing social networks with matrix-based representations	45	PPT	R1
6	Matrix and Node-Link Diagrams	45	PPT	R1
7	Hybrid representations - Applications	45	PPT	R1
8	Cover networks - Community welfare	45	PPT	R1
9	Collaboration networks - Co-Citation networks	45	PPT	R1